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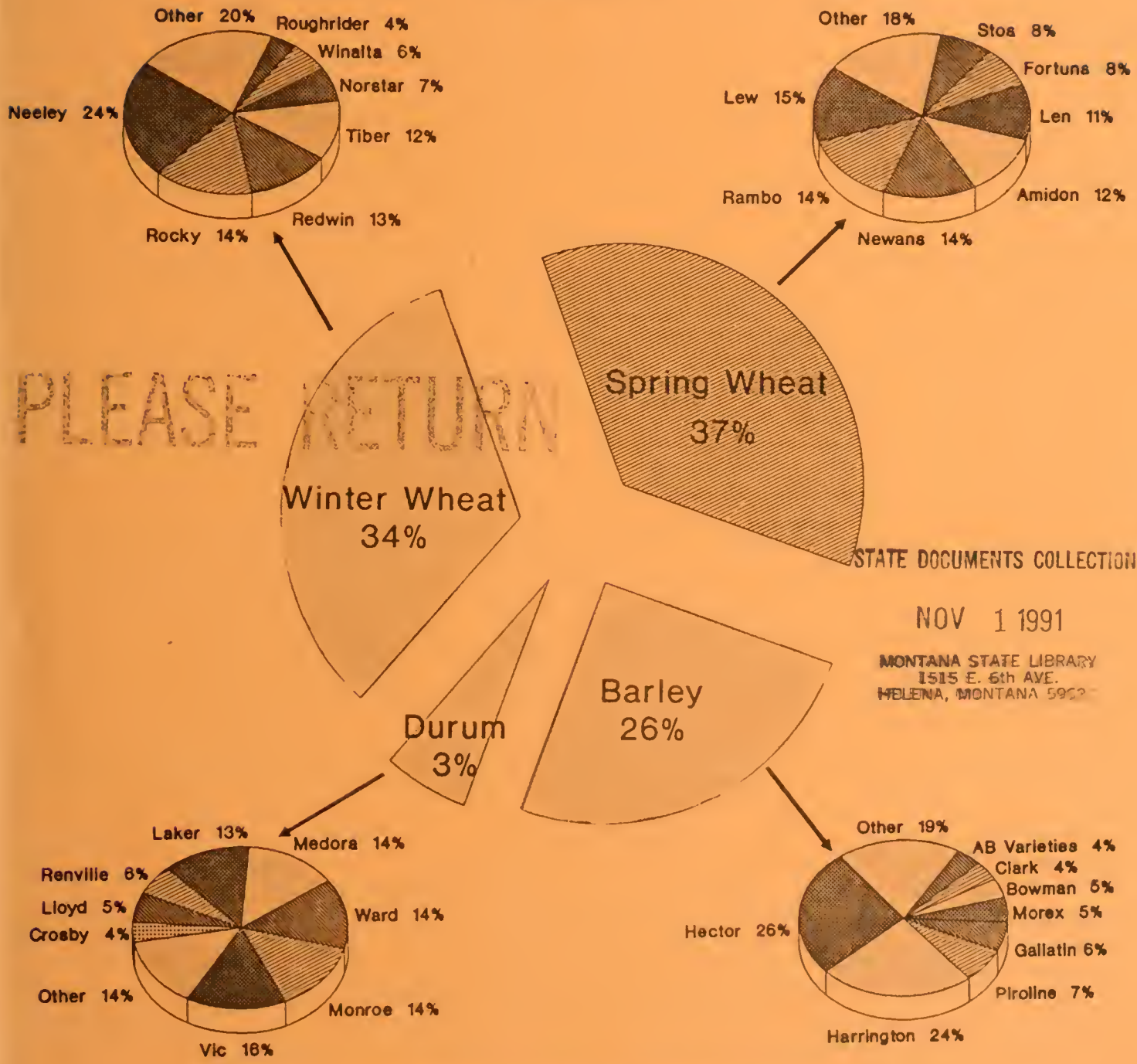
MONTANA WHEAT & BARLEY VARIETIES 1991



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MONTANA WHEAT & BARLEY VARIETIES

Foreword

This publication is the result of a June survey of Montana grain growers. It contains names, characteristics and production records of the leading varieties in Montana in 1991. We wish to thank the many farmers who voluntarily provided us with variety information.

Funding for the barley varieties survey was provided by the Montana Wheat & Barley Committee and the American Malting Barley Association, Inc. The wheat variety survey was funded by the Montana Wheat & Barley Committee. Montana State University provided varietal characteristic information.

Carmen Rost, student assistant, was responsible for data editing and analysis. She also composed the tables, graphics and the layout for this publication.

Plant researchers continually develop new grain varieties with promises of higher yields, improved baking and milling qualities and increased insect and disease resistance. Montana farmers test these new varieties in their fields with hopes of increasing their overall farm profits. Shifts occur in the acres of varieties planted, as farmers discover what works or doesn't work for them.

Montana Wheat & Barley Committee
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August 1991

WINTER WHEAT

Neeley remains in top position for the fourth consecutive year. It is a semi-dwarf, intermediate maturing variety, first released in 1980. Neeley quickly became become a leading variety, replacing acreage previously planted to Redwin, Norstar, Winalta and Centurk. For the last four years it has accounted for about one quarter of the total winter wheat planted acres. Neeley is the top variety in central Montana, making up over 60% of that district's total. Neeley has moderate to good milling and baking qualities, but has a 1 to 3 percent lower protein content than other recommended varieties.

Rocky climbed into second place. Since 1982, acreage had been stable at 8-12 percent. This year, it jumped to over 14 percent. Rocky is grown mainly in northcentral Montana. It is a high yielding variety released by North American Plant Breeders with good stem and leaf rust resistance and acceptable milling and baking qualities.

Redwin acreage dropped 22 percent to third place. This prominent variety has been on the decline since 1984 but still accounts for almost 13 percent of the total. Redwin is the leading variety in southcentral Montana. Redwin was released by Montana State University with good yield potential, winter hardiness, shatter and lodging resistance and a high protein content.

Tiber planting increased 8 percent and remained in fourth place. It accounts for almost 12 percent of the total planted acres. Tiber was released by M.S.U. in 1987 and has increased in percent of total winter wheat acres each year. Tiber has high yield potential, good winter hardiness and drought tolerance. Tiber also has good milling and baking qualities.

The top four varieties accounted for 63 percent of the winter wheat acreage seeded in 1991 compared with 60 percent for the same varieties in 1990.

WINTER WHEAT

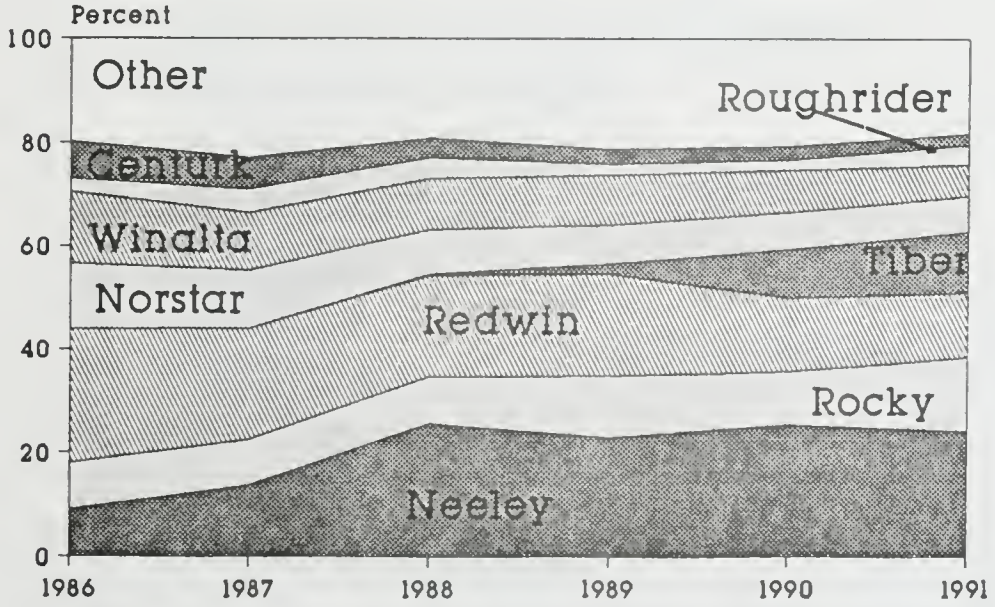
PERCENT OF TOTAL SEEDED ACREAGE 1986–1991 AND SEEDED ACREAGE 1990 – 1991

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE						SEEDED ACRES (000)	
	1986	1987	1988	1989	1990	1991	1990 1/	1991 2/
Neeley	9.0	13.7	25.5	22.8	25.7	23.8	693.2	560.1
Rocky	9.0	8.7	9.0	12.0	9.9	14.2	266.5	332.9
Redwin	25.9	21.5	19.6	19.8	14.5	13.0	391.3	306.2
Tiber	--	--	0.3	1.9	9.5	11.8	256.5	278.3
Norstar	12.7	11.3	8.7	7.6	6.9	6.8	185.9	159.0
Winalta	13.8	11.2	9.8	9.7	8.0	6.0	214.7	139.9
Roughrider	2.6	4.5	4.1	2.0	1.9	3.7	50.5	88.1
Centurk	7.2	6.1	3.8	3.0	2.7	2.3	72.2	55.0
Cree	2.6	4.2	2.9	3.1	3.9	2.0	104.2	46.6
Thunderbird	--	0.2	0.4	0.5	1.1	1.9	29.5	44.4
Weston	0.8	1.0	1.1	1.6	1.6	1.7	42.3	40.7
Cheyenne	2.4	3.4	1.7	1.4	1.8	1.2	49.1	28.6
Norwin	--	0.8	2.2	1.3	0.7	0.8	19.6	19.9
Judith	--	--	--	--	0.1	0.8	3.6	19.3
Hawk	0.4	0.2	0.6	1.2	0.7	0.8	19.8	19.3
Bighorn	--	0.1	0.1	0.3	0.6	0.8	16.4	18.1
Agassiz	0.1	1.0	1.1	1.1	0.8	0.7	20.6	16.5
Vona	0.4	0.5	0.3	0.4	0.5	0.6	12.5	15.2
Other & Unknown	13.1	11.6	8.8	10.3	9.1	6.9	251.6	162.0
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2700.0	2350.0

1/ Revised 2/ Preliminary

Winter Wheat Varieties 1986-91

Major Varieties as Percent of Total

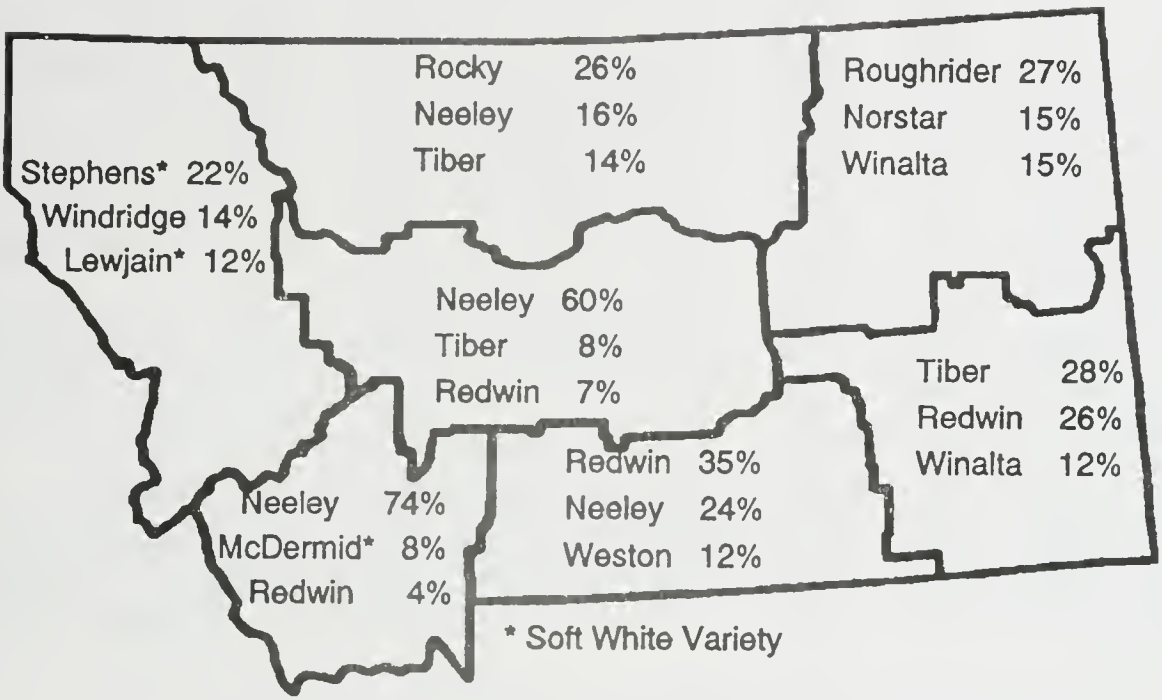


WINTER WHEAT VARIETIES

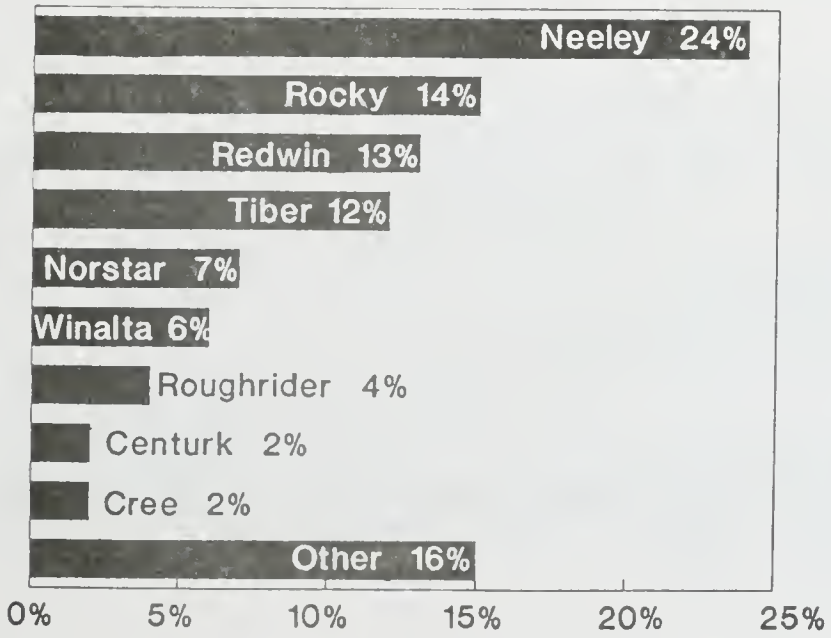
SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS – 1991 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES		ACRES		ACRES		ACRES		ACRES		ACRES		ACRES		ACRES	
	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT
Neeley	--	--	178.5	15.8	9.0	3.0	276.5	60.1	29.5	73.8	62.9	24.2	3.6	2.6	560.1	23.8
Rocky	0.3	1.5	288.2	25.5	20.7	6.9	21.2	4.6	--	--	2.6	1.0	--	--	332.9	14.2
Redwin	0.9	4.5	140.1	12.4	4.8	1.6	30.8	6.7	1.5	3.8	91.3	35.1	36.8	26.3	306.2	13.0
Tiber	--	--	155.9	13.8	16.2	5.4	38.2	8.3	1.4	3.6	28.1	10.8	38.5	27.5	278.3	11.8
Norstar	--	--	107.4	9.5	45.9	15.3	--	--	--	--	--	--	5.7	4.1	159.0	6.8
Winalta	--	--	71.2	6.3	43.5	14.5	7.8	1.7	--	--	--	--	17.4	12.4	139.9	6.0
Roughrider	--	--	--	--	81.9	27.3	--	--	--	--	--	--	6.2	4.4	88.1	3.7
Centurk	--	--	33.9	3.0	--	--	5.5	1.2	--	--	14.3	5.5	1.3	0.9	55.0	2.3
Cree	--	--	24.9	2.2	--	--	17.0	3.7	--	--	4.7	1.8	--	--	46.6	2.0
Thunderbird	--	--	5.7	0.5	38.7	12.9	--	--	--	--	--	--	--	--	44.4	1.9
Weston	--	--	--	--	--	--	8.7	1.9	0.7	1.8	31.2	12.0	--	--	40.7	1.7
Cheyenne	--	--	5.7	0.5	7.2	2.4	6.9	1.5	0.4	1.0	--	--	8.4	6.0	28.6	1.2
Norwin	--	--	15.8	1.4	1.2	0.4	2.8	0.6	0.1	0.2	--	--	--	--	19.9	0.8
Judith	--	--	12.4	1.1	--	--	6.9	1.5	--	--	--	--	--	--	19.3	0.8
Hawk	--	--	2.3	0.2	--	--	4.6	1.0	--	--	12.5	4.8	--	--	19.3	0.8
Bighorn	--	--	18.1	1.6	--	--	--	--	--	--	--	--	--	--	18.1	0.8
Agassiz	--	--	9.0	0.8	7.5	2.5	--	--	--	--	--	--	--	--	16.5	0.7
Vona	--	--	10.2	0.9	--	--	5.1	1.1	--	--	--	--	--	--	15.2	0.6
Other and Unknown	18.8	94.0	50.9	4.5	23.4	7.8	28.1	6.1	6.3	15.8	12.5	4.8	22.1	15.8	162.0	6.9
ALL VARIETIES	20.0	100.0	1130.0	100.0	300.0	100.0	460.0	100.0	40.0	100.0	260.0	100.0	140.0	100.0	2350.0	100.0

TOP THREE WINTER WHEAT VARIETIES AND PERCENT PLANTED BY DISTRICT



1991 WINTER WHEAT VARIETIES



SPRING WHEAT

Lew moved from fourth place last year to first place this year. Over the past ten years it has averaged almost 11 percent of the total planted acres of spring wheat. This year Lew had a 25 percent increase in planted acreage and accounted for more than 14 percent of the total. The northcentral and northeastern areas of the state had a large majority of the Lew this year. Lew is resistant to stripe rust, leaf rust and stem rust, and loose smut, and has high milling and baking qualities.

Rambo maintained its second position, although planted acreage dropped 14 percent. It is the top variety in northcentral Montana which has over 90 percent of the total Rambo planted this year. In four years Rambo has climbed from less than 1 percent to become an important variety in the state. It was released by the Western Plant Breeders, with sawfly, and lodging resistance. Rambo contributed over 14 percent of the total planted spring wheat acres.

Newana dropped from first place to third, with planted acreage dropping 24 percent and accounting for about 13 percent of the total planted acres. Newana is a popular spring wheat variety that is grown in every district of the state. It is the top variety in the central section of Montana this year with 38 percent of that district's planted acres. Newana was released by M.S.U., and is a semi-dwarf variety with good milling quality and yield potential.

Amidon ND(606) shot up into the fourth position as planted acreage more than doubled, contributing over 11 percent of the total. It was released in 1988 by NDSU. Amidon is especially adapted to dryland conditions where it has excellent yield potential. It has good resistance to both leaf and stem rust, has root rot tolerance and good milling qualities.

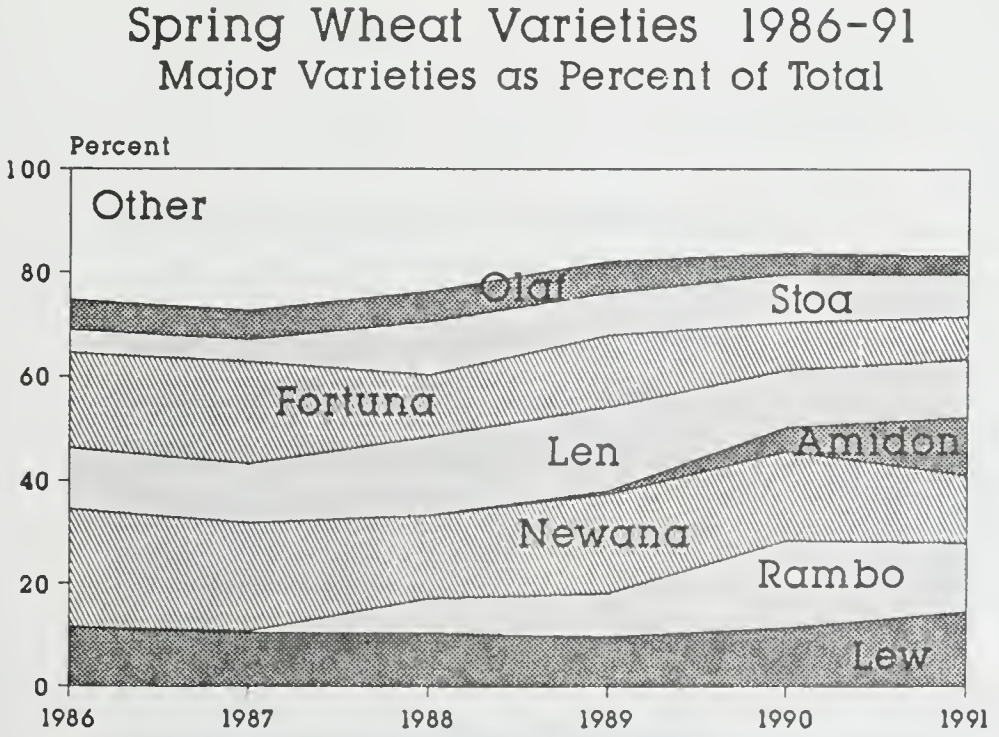
These top four spring wheat varieties represent 54 percent of the acreage seeded in 1991 compared with 48 percent for the same varieties in 1990.

SPRING WHEAT

PERCENT OF TOTAL SEEDED ACREAGE 1986–1991 AND SEEDED ACREAGE 1990–1991

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE						SEEDED ACRES (000)	
	1986	1987	1988	1989	1990	1991	1990 1/	1991 2/
Lew	11.5	10.4	10.4	10.2	10.7	14.5	300.3	375.7
Rambo	--	0.4	6.6	9.0	15.5	14.3	434.3	372.7
Newana	22.9	21.0	16.2	19.7	16.6	13.5	463.5	351.9
Amidon (ND 606)	--	--	--	0.6	4.7	11.6	132.9	301.3
Len	11.9	11.3	15.1	15.2	12.7	11.2	356.8	291.4
Fortuna	18.2	19.7	11.8	14.6	9.0	8.4	250.9	219.3
Stoa	4.4	4.2	10.3	7.9	10.0	7.7	280.2	200.8
Olaf	5.7	5.7	5.9	5.8	4.5	3.4	125.6	89.1
Butte	2.5	1.9	0.8	0.4	0.4	1.9	10.4	48.8
Glenman	0.3	1.7	1.1	2.4	1.4	1.6	38.3	40.4
Tioga	1.5	3.8	3.1	1.1	1.4	1.1	38.3	27.9
Northrup K. 751	3.3	1.8	0.9	0.5	1.3	0.8	36.6	21.6
Pondera	1.9	3.0	1.8	2.4	2.2	0.8	62.1	20.5
Westbred 926	--	--	0.1	0.1	0.3	0.8	9.2	20.0
Cutlass	--	0.2	1.1	0.5	0.7	0.6	20.3	16.8
Solar	--	1.3	0.6	0.4	0.6	0.5	17.9	12.7
Pioneer	--	--	--	0.1	0.1	0.4	2.4	11.3
Leader	0.8	1.5	0.9	1.1	0.7	0.4	20.3	11.1
Other & Unknown	15.1	12.1	13.3	8.2	7.2	6.4	199.7	166.5
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	2800.0	2600.0

1/ Revised. 2/ Preliminary.

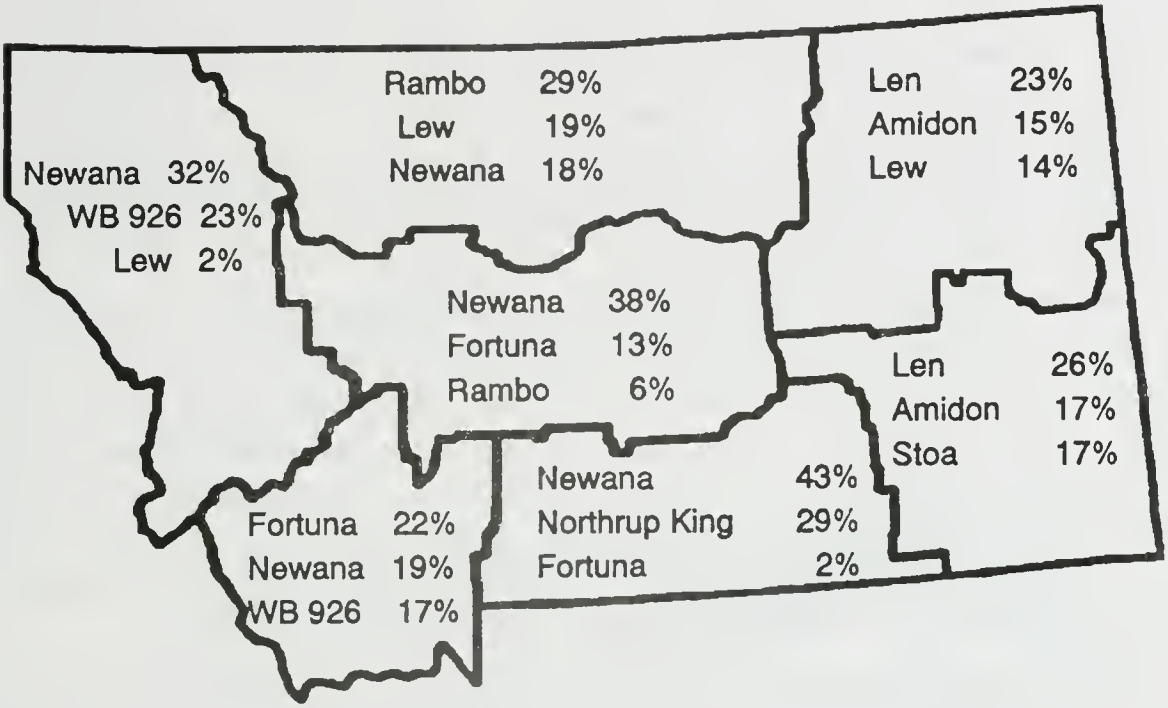


SPRING WHEAT VARIETIES

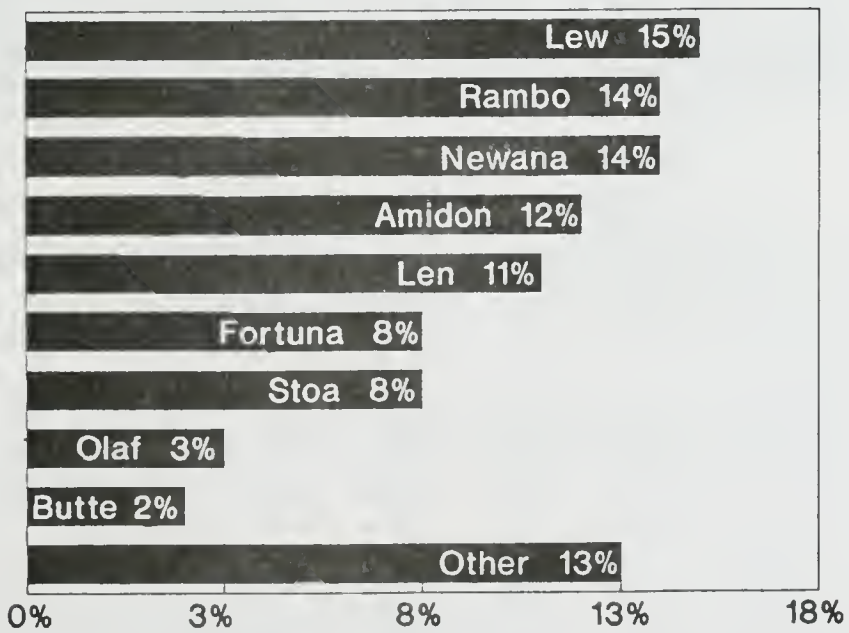
SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS – 1991 PRELIMINARY

VARIETY	NORTHWEST		N. CENTRAL		NORTHEAST		CENTRAL		SOUTHWEST		S. CENTRAL		SOUTHEAST		STATE	
	ACRES		ACRES		ACRES		ACRES		ACRES		ACRES		ACRES		ACRES	
	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT
Lew	0.6	2.3	220.2	18.5	153.3	13.8	0.6	0.7	--	--	--	--	1.0	0.8	375.7	14.5
Rambo	--	--	339.2	28.5	27.8	2.5	5.8	6.4	--	--	--	--	--	--	372.7	14.3
Newana	7.9	31.5	213.0	17.9	73.3	6.6	34.0	37.8	5.8	19.3	10.8	43.0	7.1	5.5	351.9	13.5
Amidon (ND 606)	0.4	1.5	116.6	9.8	161.1	14.5	0.8	0.9	--	--	--	--	22.4	17.4	301.3	11.6
Len	--	--	6.0	0.5	252.2	22.7	--	--	--	--	--	--	33.3	25.8	291.4	11.2
Fortuna	0.4	1.5	144.0	12.1	55.6	5.0	12.0	13.3	6.7	22.3	0.5	2.0	0.3	0.2	219.3	8.4
Stoa	--	--	29.8	2.5	145.5	13.1	3.1	3.4	--	--	--	--	22.4	17.4	200.8	7.7
Olaf	--	--	11.9	1.0	67.8	6.1	--	--	--	--	--	--	9.4	7.3	89.1	3.4
Butte	--	--	--	--	45.6	4.1	--	--	--	--	--	--	3.2	2.5	48.8	1.9
Glenman	--	--	39.3	3.3	1.1	0.1	--	--	--	--	--	--	--	--	40.4	1.6
Tioga	--	--	2.4	0.2	25.6	2.3	--	--	--	--	--	--	--	--	27.9	1.1
Northrup King 751	--	--	8.3	0.7	5.6	0.5	0.1	0.1	--	--	7.3	29.0	0.4	0.3	21.6	0.8
Pondera	--	--	11.9	1.0	6.7	0.6	2.0	2.2	--	--	--	--	--	--	20.5	0.8
Westbred 926	5.8	23.1	8.3	0.7	--	--	0.5	0.6	5.1	17.0	0.3	1.0	--	--	20.0	0.8
Cutlass	--	--	2.4	0.2	14.4	1.3	--	--	--	--	--	--	--	--	16.8	0.6
Solar	--	--	7.1	0.6	5.6	0.5	--	--	--	--	--	--	--	--	12.7	0.5
Pioneer	0.2	0.8	--	--	11.1	1.0	--	--	--	--	--	--	--	--	11.3	0.4
Leader	--	--	--	--	11.1	1.0	--	--	--	--	--	--	--	--	11.1	0.4
Other and Unknown	9.8	39.2	29.8	2.5	47.8	4.3	31.1	34.6	12.4	41.3	6.3	25.0	29.4	22.8	166.5	6.4
ALL VARIETIES	25.0	100.0	1190.0	100.0	1111.0	100.0	90.0	100.0	30.0	100.0	25.0	100.0	129.0	100.0	2600.0	100.0

TOP THREE SPRING WHEAT VARIETIES AND PERCENT PLANTED BY DISTRICT



1991 SPRING WHEAT VARIETIES



DURUM WHEAT

Vic continues to be the most prominent durum wheat variety grown in Montana with 27,900 acres or over 15 percent of the total planted acreage. Since 1987 it has been declining and this year it is down 52 percent partly due to a decrease in durum planting. The largest share of Vic was planted in the northeast district. Vic is of medium height with good disease resistance to stem rust and root rot. It is moderately resistant to leaf rust, and has satisfactory milling, processing and cooking properties.

Monroe moved into second place this season with 14 percent of the planted acreage. Since its introduction in 1986 it has become one of the top varieties grown in the northeast section of the state. This year it accounted for over 16 percent of the durum planted in that district. It was released by North Dakota in 1985. Monroe is highly resistant to most stem rust, has a high yield potential, and has favorable milling qualities and spaghetti coloring.

Ward moves into third position with only a slight increase in total planted acres. Ward accounts for 14 percent of the planted acreage. Over the years Ward has been a prominent variety, being in the top four since the early 1980's. It was named and released by North Dakota in 1972. Ward is resistant to leaf rust and has a high yield potential.

Medora dropped to fourth place, with acreage decreasing by almost half. Medora occupied 16 percent of the northeast's total planted acres of durum. It has been on the scene for five years and has been one of the top five durum wheat varieties since 1988. Medora is a strong-strawed, disease resistant variety with high yield potential.

The top four varieties represent 58 percent of the acreage seeded in 1991 compared with 68 percent for the same varieties in 1990.

DURUM WHEAT

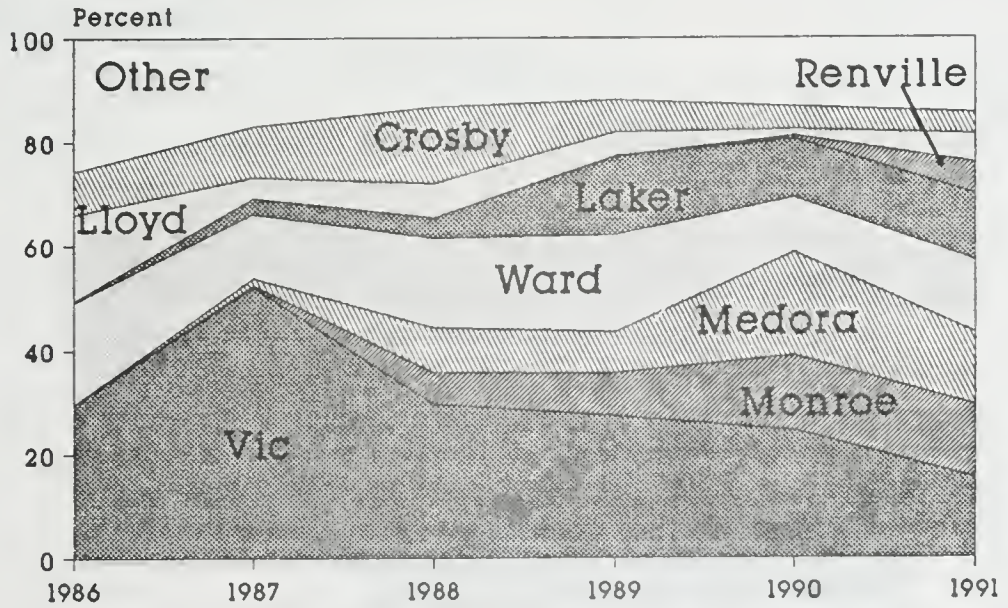
PERCENT OF TOTAL SEEDED ACREAGE 1986–1991 & SEEDED ACREAGE 1990–91

VARIETY	PERCENT OF TOTAL SEEDED ACREAGE						SEEDED ACRES (000)	
	1986	1987	1988	1989	1990	1991	1990 1/	1991 2/
Vic	29.6	52.1	29.7	27.4	24.0	15.5	58.7	27.9
Monroe	--	0.3	6.1	8.3	14.3	14.1	34.9	25.4
Ward	19.5	12.3	17.0	18.5	10.2	14.0	25.0	25.3
Medora	--	1.4	8.6	7.8	19.0	14.0	46.5	25.1
Westbred Laker	0.3	3.0	4.0	15.2	12.7	12.7	31.2	22.8
Renville	--	--	--	--	0.6	6.0	1.4	10.8
Lloyd	16.6	4.1	6.6	4.6	1.4	5.4	3.5	9.7
Crosby	8.3	9.9	14.7	6.3	4.3	4.3	10.5	7.7
Rugby	--	--	--	--	--	2.5	--	4.5
Wells	1.0	1.2	1.2	0.2	0.3	1.0	0.6	1.7
Wakooma	--	--	0.7	1.3	4.0	0.2	9.8	0.4
Cando	1.9	3.4	1.8	6.6	1.8	0.2	6.0	0.4
Other and Unknown	22.8	12.3	9.6	3.8	7.4	10.1	16.9	18.3
STATE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	245.0	180.0

1/ Revised 2/ Preliminary

Durum Wheat Varieties 1986-91

Major Varieties as Percent of Total

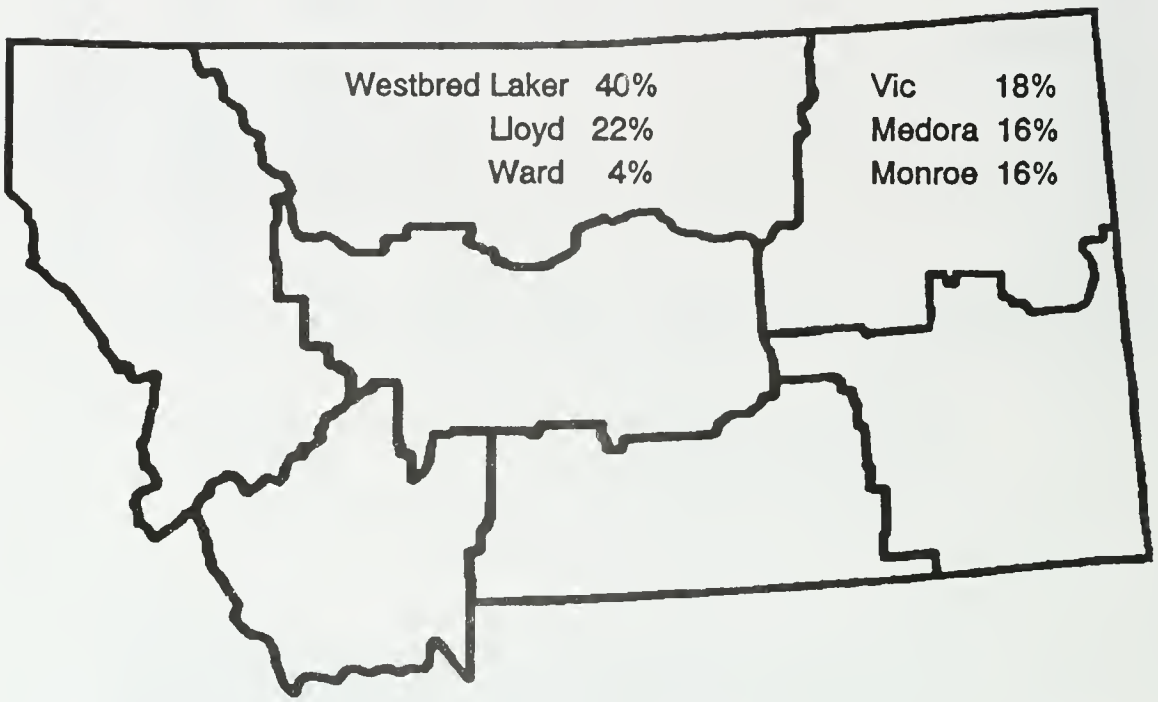


DURUM WHEAT VARIETIES

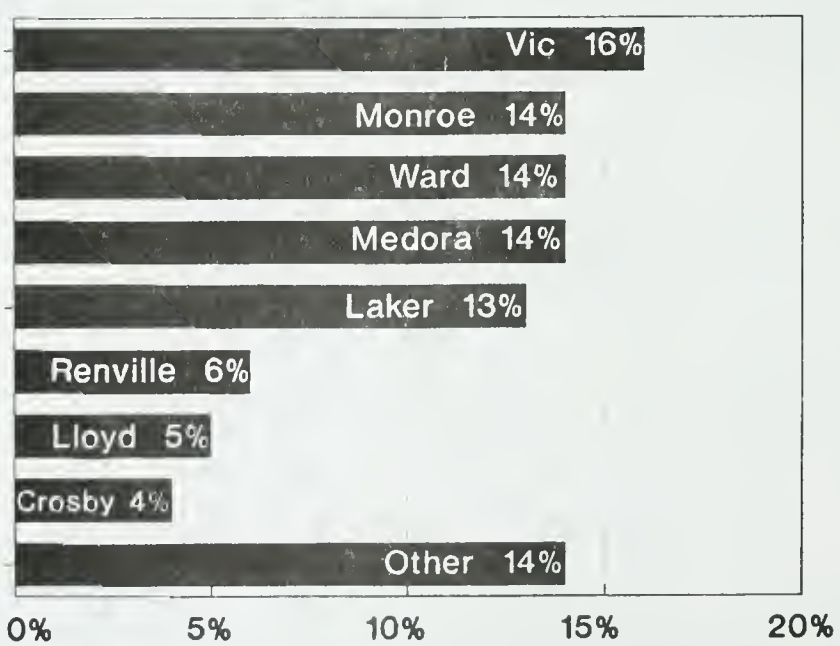
SEEDED ACREAGE & PERCENT OF TOTAL BY DISTRICTS – 1991

VARIETY	NORTH CENTRAL		NORTHEAST		OTHER DISTRICTS		STATE	
	Acres		Acres		Acres		Acres	
	(000)	PCT	(000)	PCT	(000)	PCT	(000)	PCT
Vic	0.4	1.8	27.5	17.5	--	--	27.9	15.5
Monroe	--	--	25.4	16.2	--	--	25.4	14.1
Ward	0.8	3.6	24.5	15.6	--	--	25.3	14.0
Medora	--	--	25.1	16.0	--	--	25.1	14.0
Westbred Laker	8.7	40.5	14.0	8.9	0.2	12.5	22.8	12.7
Renville	--	--	10.8	6.9	--	--	10.8	6.0
Lloyd	4.8	22.3	4.9	3.1	0.1	4.2	9.7	5.4
Crosby	--	--	7.7	4.9	--	--	7.7	4.3
Rugby	--	--	4.5	2.8	--	--	4.5	2.5
Other & Unknown	6.8	31.8	12.6	8.0	1.3	83.3	20.8	11.5
STATE TOTAL	21.4	100.0	157.0	100.0	1.6	100.0	180.0	100.0

TOP THREE DURUM WHEAT VARIETIES AND PERCENT PLANTED BY DISTRICT



1991 DURUM WHEAT VARIETIES



BARLEY

In 1991, Montana farmers planted 1.8 million acres of barley, 13 percent above 1990, but 8 percent less than the average of the last 10 years.

Hector, up 27 percent in planted acreage, remains the leading barley variety. A feed type variety, it has been number one for the past 10 years. Coming in at a close second is **Harrington.** This malting type barley increased 20 percent from last year, and has steadily grown since its release in 1981. Together, these two varieties account for half of the total seeded acres in the state.

MALTING TYPE BARLEY VARIETIES

Varieties approved for malting by the American Malting Barley Association for Montana accounted for 689,200 acres or 38 percent of the total. This is an increase of 5 percent from last year.

Harrington, planted on 24 percent of the total barley acreage, remains the leading malting type variety. More than 76 percent of the Harrington is grown in the northcentral district. Harrington was released by the University of Saskatchewan and was developed from the cross Klages/SK.

Morex, the second most prevalent malting barley is up 32 percent from 1990. It is once again the leading barley variety in the southwestern area of the state. Morex is a midwestern six-rowed variety.

Clark remains in third place with a 2 percent increase, it accounts for 4 percent of the total. Clark has been in a consistent downward trend since 1986. It is a two-rowed variety with a plump kernel and lodging resistance.

FEED TYPE VARIETIES

Hector is the first place feed type variety with 26 percent of the state total. Five out of the seven districts in Montana have Hector in the top two varieties planted. It is the most important variety in eastern Montana. Hector is a high yielding two-rowed variety from Lethbridge, Canada with good test weight and good lodging resistance.

Piroline acreage increased 2 percent, accounting for 121,300 acres. It remained in second place among feed type barleys although its percent of the planted acres has been decreasing since 1985. Piroline is a two-rowed variety, relatively strong strawed with medium yield ability and good test weight.

Gallatin once again claims third position. It made up 103,600 of the barley acres at an increase of 19 percent over last year's acreage. The largest share of Gallatin was planted in the central region of the state. Since 1987, Gallatin has experienced a gradual increase in its percent of the total barley acres seeded each year.

MONTANA BARLEY VARIETIES

PERCENT OF TOTAL SEEDED ACREAGE 1986–1991 & SEEDED ACREAGE 1990–91

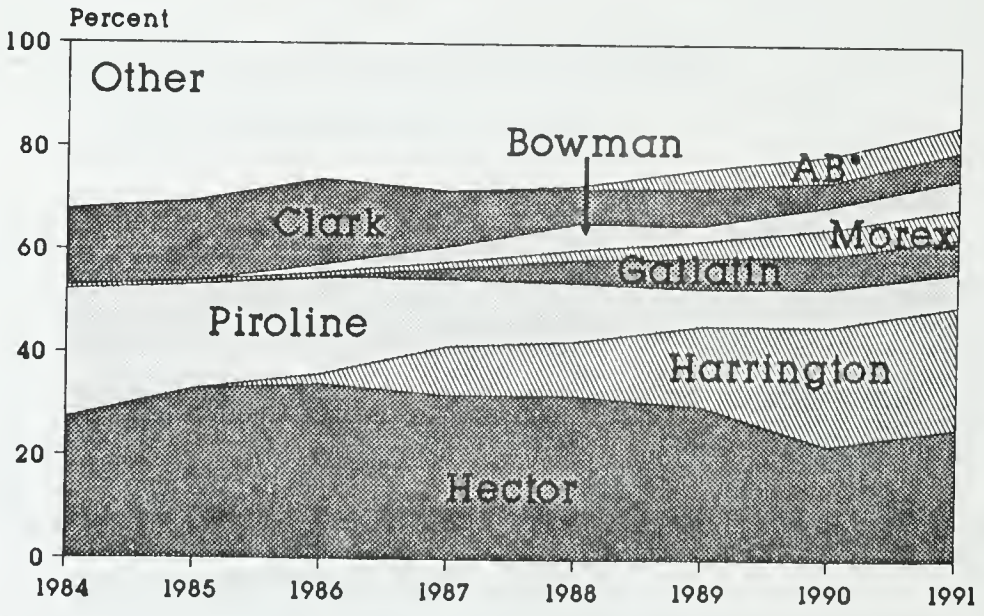
VARIETY		PERCENT OF TOTAL SEEDED ACREAGE						SEEDED ACRES (000)	
		1986	1987	1988	1989	1990	1991	1990 1/	1991 2/
Hector		33.9	31.9	31.8	29.8	22.9	25.8	365.6	465.1
Harrington	M	1.9	9.4	10.5	15.6	22.7	24.2	362.5	435.7
Piroline		18.7	13.0	11.3	7.3	7.4	6.7	118.5	121.3
Gallatin		--	0.1	2.6	6.0	5.4	5.8	86.8	103.6
Morex	M	0.8	1.2	1.9	2.3	4.1	4.8	65.8	87.1
Bowman		1.7	2.9	5.1	3.0	2.7	4.6	43.1	82.8
Clark	M	16.7	10.9	6.7	7.2	4.7	4.3	75.7	77.2
AB Varieties		--	--	0.6	2.7	5.0	3.8	80.5	67.5
Klages	M	11.5	14.6	11.0	9.8	7.2	3.2	114.8	57.2
Lewis		0.6	1.8	3.2	2.4	2.1	2.9	33.9	53.0
Horsford		0.7	0.8	0.7	1.6	1.8	2.5	28.0	45.8
Menuet		1.8	2.2	1.7	1.1	1.2	1.9	19.3	34.3
Moravian III	M	0.4	0.5	1.0	1.2	2.5	1.8	40.0	32.0
Kimberly		1.1	2.7	2.5	2.4	1.8	1.1	29.6	20.1
Unitan		0.7	0.5	0.6	0.6	0.8	0.8	12.7	13.9
Russell		--	--	0.2	0.3	1.1	0.5	18.2	8.4
Waxbar		--	--	--	0.1	0.2	0.2	3.4	4.1
Bearpaw		--	--	--	--	--	0.2	--	3.6
Compana		0.6	0.9	1.1	0.8	0.2	0.2	3.0	3.3
Betzes		0.1	0.3	0.1	--	0.1	0.2	1.5	3.2
Other and Unknown		8.8	6.2	7.6	5.8	6.1	4.5	97.1	80.8
STATE TOTAL		100.0	100.0	100.0	100.0	100.0	100.0	1600.0	1800.0

M – American Malting Barley Improvement Association, Inc. recommended malting variety for Montana

1/ Revised 2/ Preliminary

Barley Varieties 1984-91

Major Varieties as Percent of Total



* AB Varieties combined

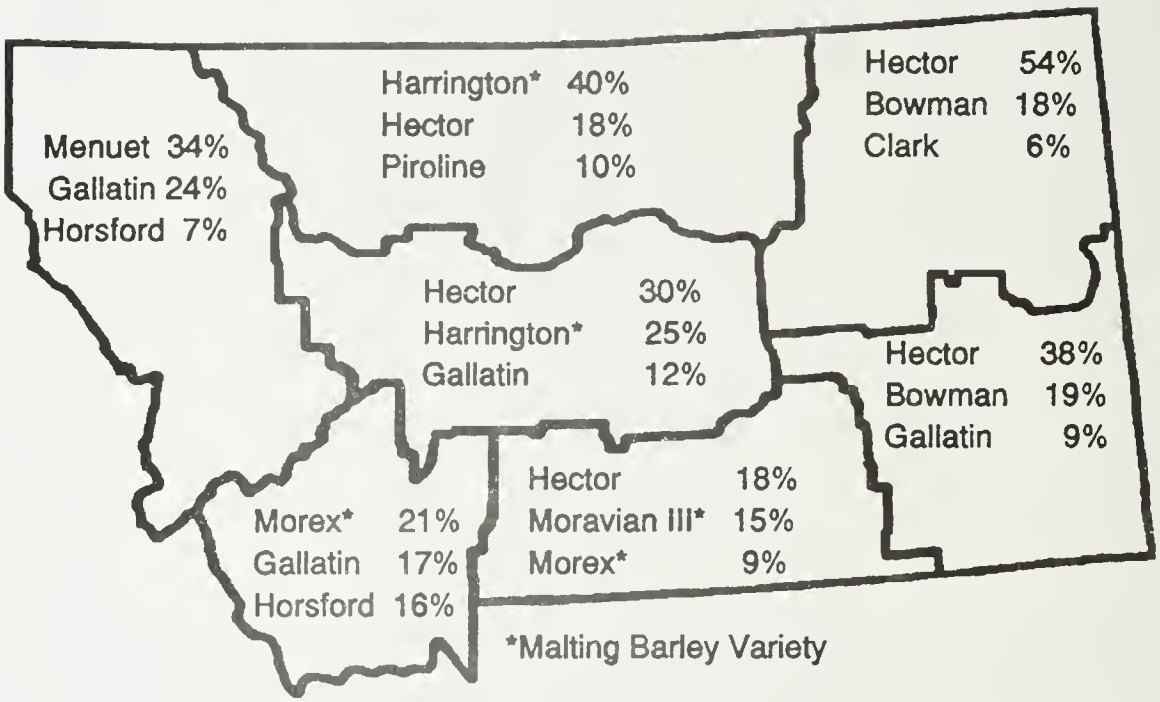
MONTANA BARLEY VARIETIES

SEEDED ACREAGE AND PERCENT OF TOTAL BY DISTRICTS–1991 PRELIMINARY

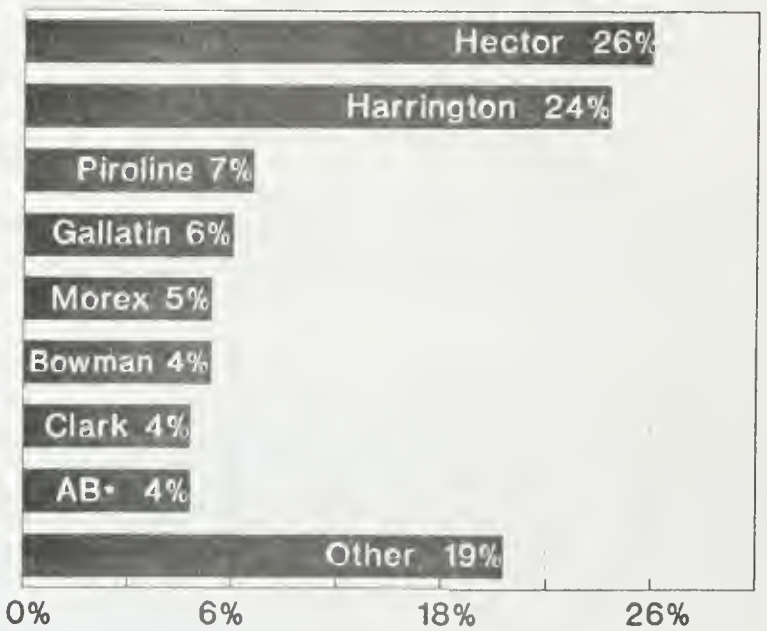
VARIETY		NORTHWEST ACRES		N. CENTRAL ACRES		NORTHEAST ACRES		CENTRAL ACRES		SOUTHWEST ACRES		S. CENTRAL ACRES		SOUTHEAST ACRES		STATE ACRES	
		(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%	(000)	%
Hector		--	--	151.0	18.4	171.4	54.4	91.1	30.4	0.5	0.5	23.0	18.4	28.1	37.5	465.1	25.8
Harrington	M	2.5	3.8	331.6	40.4	14.0	4.4	76.1	25.4	--	--	11.5	9.2	--	--	435.7	24.2
Piroline		0.8	1.2	79.4	9.7	10.0	3.2	22.9	7.6	--	--	2.1	1.7	6.1	8.1	121.3	6.7
Gallatin		15.4	23.7	23.0	2.8	1.3	0.4	34.7	11.6	16.7	16.7	6.0	4.8	6.5	8.7	103.6	5.8
Morex	M	3.3	5.1	39.7	4.8	3.8	1.2	7.4	2.5	21.3	21.3	11.6	9.3	--	--	87.1	4.8
Bowman		--	--	2.4	0.3	56.1	17.8	0.3	0.1	--	--	9.9	7.9	14.1	18.8	82.8	4.6
Clark	M	4.5	6.9	5.3	0.6	19.8	6.3	24.6	8.2	14.8	14.8	4.6	3.7	3.6	4.8	77.2	4.3
AB Varieties		--	--	63.0	7.7	--	--	--	--	--	--	4.5	3.6	--	--	67.5	3.8
Klages	M	0.6	0.9	40.1	4.9	0.2	0.1	8.7	2.9	7.4	7.4	0.2	0.2	--	--	57.2	3.2
Lewis		4.5	6.9	13.8	1.7	6.1	1.9	20.8	6.9	5.1	5.1	2.7	2.2	--	--	53.0	2.9
Horsford		4.7	7.2	3.5	0.4	1.5	0.5	3.2	1.1	15.9	15.9	11.3	9.0	5.7	7.6	45.8	2.5
Menuet		21.8	33.5	0.9	0.1	4.4	1.4	--	--	6.7	6.7	0.5	0.4	--	--	34.3	1.9
Moravian III	M	--	--	13.4	1.6	--	--	--	--	--	--	18.6	14.9	--	--	32.0	1.8
Kimberly		--	--	20.1	2.5	--	--	--	--	--	--	--	--	--	--	20.1	1.1
Unitan		0.3	0.5	--	--	10.7	3.4	0.4	0.1	1.2	1.2	0.8	0.6	0.5	0.7	13.9	0.8
Russell		2.0	3.1	5.3	0.6	--	--	1.1	0.4	--	--	--	--	--	--	8.4	0.5
Waxbar		--	--	2.2	0.3	--	--	--	--	1.9	1.9	--	--	--	--	4.1	0.2
Bearpaw		--	--	3.4	0.4	--	--	--	--	0.2	0.2	--	--	--	--	3.6	0.2
Compana		--	--	--	--	0.5	0.2	--	--	--	--	1.5	1.2	1.3	1.7	3.3	0.2
Betzes		--	--	--	--	--	--	--	--	--	--	3.2	2.6	--	--	3.2	0.2
Other & Unknown		4.6	7.1	21.9	2.7	15.2	4.8	8.7	2.9	8.3	8.3	13.0	10.4	9.1	12.1	80.8	4.5
ALL VARIETIES		65.0	100.0	820.0	100.0	315.0	100.0	300.0	100.0	100.0	100.0	125.0	100.0	75.0	100.0	1800.0	100.0

M – American Malting Barley Improvement Association, Inc. recommended malting variety for Montana

TOP THREE BARLEY VARIETIES AND PERCENT PLANTED BY DISTRICT



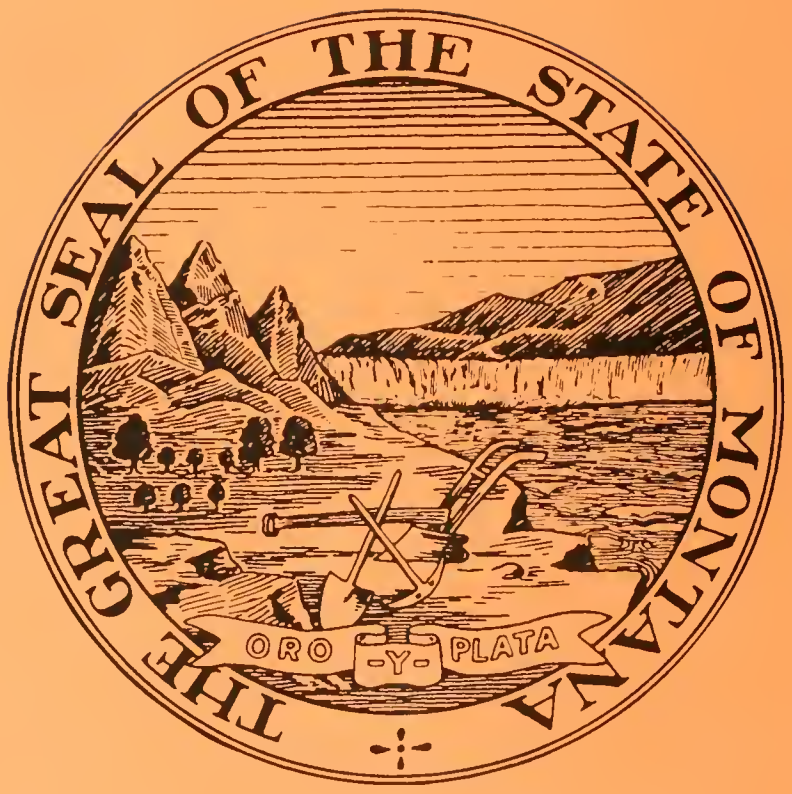
1991 BARLEY VARIETIES



•AB Varieties combined

MONTANA'S RANK AMONG THE LARGER WINTER WHEAT, SPRING WHEAT, DURUM WHEAT & BARLEY PRODUCING STATES

STATE	1991 SEEDED ACREAGE (000)	RANK
WINTER WHEAT		
KANSAS	11,800	1
OKLAHOMA	7,400	2
TEXAS	6,200	3
COLORADO	2,600	4
MONTANA	**2,350**	**5**
NEBRASKA	2,350	6
WASHINGTON	2,200	7
MISSOURI	1,650	8
ILLINOIS	1,650	9
SOUTH DAKOTA	1,500	10
OHIO	1,150	11
ARKANSAS	1,100	12
ALL OTHER	9,099	
US TOTAL	51,049	
SPRING WHEAT		
NORTH DAKOTA	7,000	1
MONTANA	**2,600**	**2**
MINNESOTA	2,100	3
SOUTH DAKOTA	1,800	4
WASHINGTON	1,500	5
IDAHO	470	6
ALL OTHER	134	
US TOTAL	15,604	
DURUM WHEAT		
NORTH DAKOTA	3,000	1
MONTANA	**180**	**2**
SOUTH DAKOTA	90	3
ARIZONA	45	4
CALIFORNIA	33	5
MINNESOTA	30	6
US TOTAL	3,378	
BARLEY		
NORTH DAKOTA	2,900	1
MONTANA	**1,800**	**2**
MINNESOTA	900	3
IDAHO	800	4
WASHINGTON	580	5
SOUTH DAKOTA	500	6
CALIFORNIA	240	7
OREGON	190	8
ALL OTHER	1,016	
US TOTAL	8,926	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